Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of Work: Providing Water Supply Facilities in Ward No.13 Shettyhalli Sub Division.

					Est .Cost Rs.40.00 Lakhs				
Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc (P.NO-47, I.NO-9.4, PRED 12-13 SR)								
		No.s	4				4.00	2032.56	**8130.24**
2	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) (P.NO-47, I.NO-9.1, PRED 12-13 SR)								
	0.00 to 50.00 Mtr.	Mtr	4	50.00			200.00	330.48	**66096.00**
	50.00 to 100.00 Mtr.	Mtr	4	50.00			200.00	432.00	**86400.00**
	100.00 to 150.00 Mtr.	Mtr	4	50.00			200.00	480.60	**96120.00**
	150.00 to 200.00 Mtr.	Mtr	4	50.00			200.00	507.60	**101520.00**
	200.00 to 250.00 Mtr.	Mtr	4	50.00			200.00	587.52	**117504.00**
	250.00 to 300.00 Mtr.	Mtr	4	50.00			200.00	629.64	**125928.00**
	300.00 to 350.00 Mtr	Mtr	4	50.00			200.00	780.00	**156000.00**
3	Supplying of ISI Mark 175 mm nominal bore medium black ERW casing pipe of 5mm thick black electric resistance continous welded midle steel tube material confirming to IS 1387/!993 and manufactured from hot rolled steel skelp/stripes in random length of 4 to 7 mtr both ends threaded confirming to IS 554/1985 one end(including of all taxes) (P.NO-III, I.NO-84, PRED 12-13 SR)								
	Casing Pipe	Mtr	4	40.00			160.00	**1325.00**	**212000.00**
4	Additional rate on Item No.2 is allowed for drilling in over burden and folling casing pipes beyond 20mtrs, rate at 15% and beyond 30mtrs 30% on basic rate of Rs.306 is allowed (P.No.48 item No 9.1.1)								
a	Above 20mtrs and upto 30mtrs	mtrs	4			10	40	45.9	1836
5	Providing 175 mm dia M.S. Collar (P.NO-II, I.NO-86, PRED 12-13 SR)								
		Each	4	10			40	**150**	**6000.00**
6	Providing 175mm M.S Cap(P.NO-II, I.NO-85, PRED 12-13 SR)								
		Each	4	1.00			4.00	**150.00**	**600.00**
7	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 15.000. HP 25 stage (P NO.XXXX, I.NO-30,PWD SR-2015-16)								

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	15 HP Motor	Set	3				3	73494.68	220484.04
	20 HP Motor	Set	1				1	83846.00	83846.00
8	Supplying and Drawing 3 core Flat PVC Shalted Submersible pump cable Manufactured with Electrolytic Grade copper with Flexiblecopper conductor to table 3 class 5 of IS 8130-1984 and virgen PVC insulation and Sheeated suitable for working Voltage Upto 1100 Volts BWSSB SR 2014-15, P-535;I.30 P.12 Sl.2.10.4								
		Mtrs	4x2	240			1920		
			4	9			36		
9	Supply and fixing 50mm Non return valve of vertical type of approved make including cost of all materials labour HOM of equipment with all leads Complete as per specification PWD SR 2015-16, P.No. XXIII, Sl.659						1956	188.70	369097.20
		No.s	4				4		
10	Supplying & delivery of brand new best make Gate Valve of size 50mm as per IS:778/84 with latest amendments with ISI mark. 50mm Gate Valve for distributer pipeline. 50mm dia (PWD SR-2015-16, P.No.XXIII, Sl.no,673)						4	1145.00	4580.00
		No's	4				4.00	1600.00	6400.00
11	Supplying and fixing 175mm Borewell cap with clampsetAs per approved Rate per SERED Letter No 2081/2010-11'								
		No's	4				4.00	500.00	2000.00
12	Providing and fixing 50mm GI union to the motor (PWD SR-2014-15, P.No.XXXIX, G.I.Pipe Fittngs -ISI Standards Table)								
		No's	4				4.00	223.70	894.80
13	Supplying & fixing of 50mm GI Elbow PWD SR 15-16 XXXIX								
		No's	4	3.00			12.00	111.80	1341.60
14	Supplying and delivery at site brand new/Essen/Lotussunsines/Adarsh/GK controls best indigenous make combine energy meter-cum-control panel board unit of size 1200x600x300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the road, canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC Supply shall be consisted etc, completed T pannel board shall befabricated on singleunits in the above components panel board for suitable pumpset above components panel board for suitable pumset above 6.50 HP 15.00 HP with star delta starter (MR)								
		No's	4				4.00	10000.00	40000.00
15	providing and fixing 50mm GI pipe 'C' Class heavy duty for erection of submersible pumpse galvanised tube 50mm supply and delivary of cause heavy duty as per (PRED SR P.No.56. I.No.10.1								
		Mtr	4	300.00			1200.00	519.30	623160.00
16	Supplying & fixing of 50mm GI Coller heavy duty PRED SR 2012-13 P-III S-86								
		No's	150				150.00	150.00	22500.00
17	Erection of combined panel board meter with all necessary materials and labour including providing Cement concrete foundation bed etc,. Complete PRED ISSUE RATE								
		No's	4				4.00	475.00	1900.00
18	Supplying of TPST with rewirable porcelain channels inSM encloser 15/32 amps P-521, Group Bi-1(b), BWSSB SR 2013-14								
		No's	4				4.00	1320.00	5280.00
19	supplyng and fixing 500x500x65mm polished wood board made of not less than 15mm thick plank in front plank one end provided for olding at other end fixing the sameof the valve using through bolts and nuts, PRED ISSUE RATE								
		No's	4				4.00	302.50	1210.00
20	Supplying and fixing LED Type panel board indicating lamp with required colour suitable for 220 V AC 50Hz 12/24 V DC Group B P.529, I-35(b) BWSSB SR 2013-14								
		No's	4	3.00			12.00	385.00	4620.00
21	Supplying and Drwaing each PVC Insulted 651/100V Grade wire in the conduct (open or concealed system of wiring) 7/20 or 7/36 copper wire P-380, I-20,ii(d),BWSSB SR2012-13.								
		No's	4	10.00			40.00	27.50	1100.00

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22	Supplying fixing and wiring heavy duty low voltage capacitors conferming I 2834,3 PHASE 400/440 Vts grade for power factor improvement of rotating machinery capacitor in KVAR rating Nos 2 KVAR Capacity P-402. -34(a) BWSSB SR 2012-13								
	Group A	No.s	4				4.00	385.00	1540.00
23	Supply and Fixing Miniature circuite breakers on existing MCB distribution boards using necessary fixing materials and complete as required P-526 I-13 (P, a) BWSSB SR 2013-14								
		No's	4				4.00	880.00	3520.00
24	Supplying and fixing wiring earth electrode for grounding conduits, LC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 12mm dia (P.NO - 552, I.NO - 7,BWSSB SR 13-14)								
		No's	4				4.00	1650.00	6600.00
25	Supplying and fixing of A class (medium duty) GI Pipe of wall thickness not less than 3.25 mm on pole / wall . Drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm dia (Page No.62 Item No.7.12.1)								
		No's	4	9.00			36	286	10296.00
26	Supplying and fixing wiring earth electrode for grounding conduits, LC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 12mm dia (P.NO - 552, I.NO - 7,BWSSB SR 13-14)								
		No's	4				4.00	1650	6600
27	Supplying 1.1 KV class UG Cable From nearest Bescom Pole to Panel Board Including Earth Work and Road Restoratio 4 core 16sqmtr P-426,i-10 (d) BWSSB SR 2012-13								
		Mtr	4	30.00			120.00	165.00	19800.00
28	Labour charges for Layeing 1.1 KV class UG Cable when Supplyed by agencies in exisisting trenches GI pipe -stone pipe-on pole as required, P-427,I -11(a) BWSSB SR 2012-13								
		Mtr	4	30.00			120	5.50	660.00
29	Digging of trench of 0.60x0.50 Mts wide refiiling the trench to the required ground level and consolidated etc. Complete sutting road surface (Page No-554,I.NO-12(b) , BWSSB SR 13-14)								
		Mtr's	4	15.00			60.00	44.00	2640.00
30	Supplying and fixing LT Cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitimen / insulating compound complete with terminals, clamps, Bolts, nuts & washers etc 4 core 16 Sqmm (Ele SR of 2014-15, Page No.62/7.13.2)								
		No's	4				4	264.00	1056.00
31	Supplying and fixing of Porce lain fuse channel with cut-out on existing bar new wooden panel using neseccery nuts,bolts and washers etc.,BWSSB SR P-394 I 173								
		Nos	4	6.00			24.00	440.00	10560.00
32	Bescom Deposit charge and Miscellanious								
		L.S	4				4.00	15000.00	60000.00
33	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (Page No. 138, Item No.18.48,PW,P & IWTD SR 2016-17)								
		Cum	4	313.00	0.30	0.25	93.90	827.86	77736.05

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35	KSRB 2-2.3: Excavation by manual means for foundation of buildings, water supply & sanitary lines and electrical conduits etc., either in pits or in trenches 1.50m and above in width, in soft rock not exceeding 1.50mtrs in depth including stacking the excavated stuff clear from edges of excavation with lead upto 50mt including cost of explosives,labour, HOM of equipment complete as per specifications,specification. No. KBS 2.1 C/2.9.4/2.18/2.19								
	CC Road cutting portion	Cum	4	313.00	0.30	0.55	206.58		
	Asphalting Road cutting portion		4	100.00	0.30	0.55	66.00		
							272.58	299.98	81768.55
36	Providing and installaing at site od work PVC Pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including joining of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc.., complete PVC Pipes Of 60kg/sqm 50mm dia .page No XVIL Si 52.2 PWD SR 2016-17								
		RMT	4	413.00			1652	235.00	388220
37	Supplying and Fixing 50mm GI Pipes 'B' Class hecy duty (Asper BWSSB Store issued Rate) Note:. GI Pipe using For Road Classing Place								
		No's	4				4.00	1350	5400.00
38	KSRB 2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(P No 6 I No 2.11 PWD SR rate 2016-17								
		CUM	4	413.00	0.30	0.55	272.58	80.56	21959.0448
39	Transporation Of Pumping Machinerys Pred SR 2012-13 PG 51/10.3.19								
			4				4.00	900.00	3600.00
40	Eraction Of Pumping Machinerys Pred SR 2012-13 PG 51/10.3.20								
			4				4.00	900	3600.00
41	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2(Page No. 12, Item No.4.3,PW,P & IWTD SR 2016-17)								
		CUM	4	313.00	0.30	0.10	37.56	5159.02	193772.79
42	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.)(Page No. 18.tem No.4.49.1,PW,P & IWTD SR 2016-17)								
		CUM	4	313.00	0.30	0.10	37.56	6231.74	234064.15
43	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site,laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 Page No.158,Iteam No.20.18 PW,P& IWTD SR 2016-17								
	For Asphalting Road	CUM	4	90.00	0.30	0.15	16.20	1768.08	28642.90
44	Providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular of base including clearing of road surface and spraying primer at the of 0.6 kg/sqm using mechanical means complete as per specifications with all leads lifts Etc, complete as per the direction of Engineer-in-Charges (Page No.161 Iteam No.21.6 PW,P&IWTD SR 2016-17)								
	For Asphalting Road	Sqm	4	90.00	0.30		108.00	27.56	2976.48

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ನಂ. EE/DP/As/628/17-18, ದಿನಾಂಕ: 20/12/2017
ರೂ. Rs. 40.00 lakhs Fourty Lakhs Only
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಅನುಮೋದನೆ ನೀಡಿದೆ.
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

43	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mixplant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power rolier to achieve the desired density, but excluding cost of primer/ tack coat including lead, lift and cost of all materials, labour,do - using 100/120 TPH capacity H.M.P. with sensor paver Gr-II cum(50 mm to 75 mm) with 3.4% VG-30 Bitumen HOM of machineries complete as per specifications Page No.162 Iteam No.21.11.2 PW,P&IWTD SR 2016-17)								
	For Asphalting Road	CUM	4	90.00	0.30	0.05	5.40	5624.36	30371.54
44	Providing and applying tack coat 80/100 grade bitumen (VG 10) on the prepared black topped surface at 2.5 kg per 10sqm heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all material HOM mechanical means complete as per specifications with all leads lifts Etc. complete as per the direction of Engineer-in-Charges (Page No.161 Iteam No.21.7 PW,P&IWTD SR 2016-17)								
	For Asphalting Road	Sqm	4	90.00	0.30		108.00	11.66	1259.28
45	KSRRB M500-19. Providing and laying bituminous concrete with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9complete in all respects complete as per specifications.do - using 100/120 TPH capacity H.M.P. with sonsor paver Gr-II cum(30 mm to 45 mm) with 5.4% VG-30 Bitumen MOFITH Specification No. 509 (Page No.165 Iteam No.21.22.6 PW,P&IWTD SR 2016-17)								
	For Asphalting Road	CUM	4	90.00	0.30	0.05	5.40	7083.98	38253.49
46	Beeran Charges		4	@ 1.5	0.6	/-			3601444.16
47	KRIDL Charges -(3+labour cess 1 + Applicable GST)								396158.86
48	Miscellaneous and Other Charges								2396.98
								Total	4000000.00

(Rupees Fourty Lakhs Only)

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR 2016-17
3 The Provision made in estimate are adequate and essential
4 This area comes under BBMP limits.
5 This work is not included in any other estimate.

Asst Engineer
Ward No 13

Asst Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Division
BBMP

ನಂ. CE ಗಿs/as/17-18 ದಿನಾಂಕ:
ರೂ. Rs. 40.00 lakhs Only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಜಾ.ಜಾ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

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